

IN THE SPECIFICATION:

Please rewrite the table on page 8 as follows:

S. No.	Description	DNA Based Number
2.	Limits to integer representation in n bases/cell	Maximum: $+4^{n-1} - 1$ Minimum: -4^{n-1}
3.	Integer addition	Addition of 100 and 63 : <div style="text-align: right;"> Carry TT AAA TCTA $(100)_{10}$ + AAA AGGG $(63)_{10}$ <hr/> Result AAA CCAG $(163)_{10}$ </div>
4.	Integer subtraction	Subtracting 63 from 100: Sol. Complement of $(63)_{10}$ is taken and added to $(100)_{10}$ <div style="text-align: right;"> Carry T T T T A A A T C T A $(100)_{10}$ + G G G G A A T <hr/> $(-63)_{10}$ Result A A A A C T T <hr/> $(37)_{10}$ </div> Note: Extra carry T has to be ignored
5.	Real number representation	Real numbers are represented as Floating-Point in 32-bases/cell. Having three components i.e. sign bit, magnitude and exponent: <ul style="list-style-type: none"> - leftmost base represents the sign + next 23bases represent the magnitude + rest 8 bases represent exponent - Sign base "T" represents positive real number - Sign base "C" represents negative real <div style="text-align: center;"> <p>Real C AAAAAA is composed of :</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Sign base</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Magnit ude</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Expone nt</div> </div> </div>
6.	Real number addition	Addition of 1.1 and 1.1 Soln. Magnitude is taken for processing: <div style="text-align: right;"> Carry T T AAAAAAAAAAAAAAAAAAAAAACGAAA AAAAT $(1.1)_{10}$ (SEQ ID NO: 1) + AAAAAAAAAAAAAAAAAAAAAACGAAA AAAAT $(1.1)_{10}$ (SEQ ID NO: 1) <hr/> = AAAAAAAAAA AAAAAAAAAATTC </div>

Please rewrite the table on page 9 as follows:

S. No.	Description	DNA Based Number
		<u>AAAAAAAT</u> (2.2) ₁₀ (SEQ ID NO:2)
7.	Real number subtraction	<p>Subtracting 12.3 from 10.1</p> <p>Soln. Addition of 10.1 and -12.3 would give the result</p> <p>T AAAAAAAAAAAAAAAAAAAAAA</p> <p>TCTT AAAAAAAT (10.1)₁₀ (SEQ ID NO:3)</p> <p>+C GGGGGGGGGGGGGGGGGGGGG</p> <p>CATT AAAAAAAT (-12.3)₁₀ (SEQ ID NO:4)</p> <p>=C GGGGGGGGGGGGGGGGGGGGG</p> <p>GCCC AAAAAAAT (-2.2)₁₀ (SEQ ID NO:5)</p>

After page 9, last line, add the following Sequence Listing on a separate page: